

[illegible]


```

0001 0 %TITLE 'STR$$CHECK_STATUS -Check status and convert to STR$ status'
0002 0 MODULE STR$$CHECK_STATUS ( ! Check status and convert to STR$ status
0003 0
0004 0 IDENT = '1-003' ! File: STRCHESTA.B32 Edit: RKR1003
0005 0
0006 0 ) =
0007 1 BEGIN
0008 1
0009 1 *****
0010 1 *
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0028 1 *
0029 1 *
0030 1 *****
0031 1
0032 1
0033 1 ++
0034 1 FACILITY: String support library
0035 1
0036 1 ABSTRACT:
0037 1
0038 1 This module contains a single routine which inspects the
0039 1 incoming status ( usually a LIB$ or SS$ status) and converts
0040 1 it into the appropriate STR$ status. If it is one of the
0041 1 fatal LIB$ statuses, the corresponding STR$ status gets
0042 1 signalled.
0043 1 Unrecognized statuses are left alone.
0044 1
0045 1 ENVIRONMENT: Runs at any access mode - AST reentrant
0046 1
0047 1 AUTHOR: R. Reichert, CREATION DATE: 3-MAY-1981
0048 1
0049 1 MODIFIED BY:
0050 1
0051 1 1-001 - Original. RKR 3-MAY-1981
0052 1 1-002 - Revise what error statuses get signaled. RKR 3-SEP-1981.
0053 1 1-003 - Add explicit external declaration for LIB$STOP.
0054 1 RKR 4-NOV-1981.
0055 1
0056 1 --
0057 1

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```
59 0058 1 %SBTTL 'Declarations'
60 0059 1
61 0060 1 SWITCHES:
62 0061 1
63 0062 1
64 0063 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL,
65 0064 1 NONEXTERNAL = WORD_RELATIVE);
66 0065 1
67 0066 1 LINKAGES:
68 0067 1
69 0068 1 REQUIRE 'RTLIN:STRLNK'; ! The linkage declarations
70 0253 1
71 0254 1 TABLE OF CONTENTS:
72 0255 1
73 0256 1
74 0257 1 FORWARD ROUTINE
75 0258 1 STR$$CHECK_STATUS_R2 : STR$$CHECK_STATUS_LINKAGE;
76 0259 1
77 0260 1
78 0261 1 INCLUDE FILES:
79 0262 1
80 0263 1
81 0264 1 LIBRARY 'RTLSTARLE'; ! System symbols, typically from
82 0265 1 SYSS$LIBRARY:STARLET.L32
83 0266 1 REQUIRE 'RTLIN:RTLPSECT'; ! Define PSECT declarations macros
84 0361 1
85 0362 1 MACROS:
86 0363 1
87 0364 1 NONE
88 0365 1
89 0366 1 EQUATED SYMBOLS:
90 0367 1
91 0368 1 NONE
92 0369 1
93 0370 1 FIELDS:
94 0371 1
95 0372 1 NONE
96 0373 1
97 0374 1 PSECTS:
98 0375 1
99 0376 1 DECLARE PSECTS (STR); ! Declare psepts for STR$ facility
100 0377 1 OWN STORAGE:
101 0378 1
102 0379 1 NONE
103 0380 1
104 0381 1 EXTERNAL REFERENCES:
105 0382 1
106 0383 1
107 0384 1 EXTERNAL ROUTINE
108 0385 1 LIB$STOP; ! to signal errors
109 0386 1
110 0387 1 EXTERNAL LITERAL ! Condition value symbols
111 0388 1 LIB$_INSVIRMEM, ! Insufficient virtual memory
112 0389 1 LIB$_INVSTRDES, ! Invalid string descriptor
113 0390 1 LIB$_INVARG, ! Invalid argument
114 0391 1 LIB$_STRTRU, ! String truncated
115 0392 1 LIB$_WRONUMARG, ! Wrong number of arguments
```


STR\$\$CHECK_STAT STR\$\$CHECK_STATUS -Check status and convert to I 16
1-003 Declarations 16-Sep-1984 01:31:12
14-Sep-1984 12:40:01

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]STRCHESTA.B32;1

Page 3
(2)

:	116	0393	1	STR\$ _NORMAL,	:	Success
:	117	0394	1	STR\$ _INSVIRMEM,	:	Insufficient virtual memory
:	118	0395	1	STR\$ _ILLSTRCLA,	:	Illegal string class
:	119	0396	1	STR\$ _TRU,	:	Truncation
:	120	0397	1	STR\$ _WRONUMARG;	:	Wrong number of arguments
:	121	0398	1			


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123 0399 1 %SBTTL 'STR$$CHECK STATUS_R2 - Check Status'
124 0400 1 GLOBAL ROUTINE STR$$CHECK_STATUS_R2 ( ! Check status
125 0401 1
126 0402 1     IN_STATUS
127 0403 1
128 0404 1         ) : STR$$CHECK_STATUS_LINKAGE =
129 0405 1
130 0406 1 !++
131 0407 1 FUNCTIONAL DESCRIPTION:
132 0408 1
133 0409 1     This routine inspects the incoming status. If it is one of
134 0410 1     a recognized set of fatal LIB$ statuses, the corresponding
135 0411 1     STR$ status is signalled. Some LIB$ statuses are converted
136 0412 1     to the corresponding STR$ status. If the status is unknown,
137 0413 1     it is simply returned.
138 0414 1
139 0415 1 CALLING SEQUENCE:
140 0416 1
141 0417 1     STR$$CHECK_STATUS_R2 ( IN_STATUS.rlc.v )
142 0418 1
143 0419 1 FORMAL PARAMETERS:
144 0420 1
145 0421 1     IN_STATUS.rlc.v           The input status
146 0422 1
147 0423 1 IMPLICIT INPUTS:
148 0424 1
149 0425 1     NONE
150 0426 1
151 0427 1 IMPLICIT OUTPUTS:
152 0428 1
153 0429 1     NONE
154 0430 1
155 0431 1 COMPLETION STATUS:
156 0432 1
157 0433 1     OUT_STATUS.wlc.v           The output status
158 0434 1
159 0435 1
160 0436 1 SIDE EFFECTS:
161 0437 1
162 0438 1     If it finds IN_STATUS to be LIB$ INSVIRMEM, LIB$ INVSTRDES,
163 0439 1     LIB$ WRONUMARG or LIB$ INVARG it signals the corresponding STR$
164 0440 1     condition code.
165 0441 1
166 0442 1 --
167 0443 1
168 0444 2 BEGIN
169 0445 2
170 0446 2 LOCAL
171 0447 2     OUT_STATUS ;           ! the status returned
172 0448 2
173 0449 2 OUT_STATUS = (SELECTONE .IN_STATUS OF
174 0450 2     SET
175 0451 2         [SS$ NORMAL,
176 0452 2         STR$_NORMAL]:      .IN_STATUS ; ! most common first
177 0453 2
178 0454 2         [LIB$_STRTRU]:      STR$_TRU ;   ! next most common
179 0455 2

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: 180      0456 3      [LIB$_INSVIRMEM]: LIB$STOP (STR$_INSVIRMEM) ; !least
: 181      0457      [LIB$_INVSTRDES]: LIB$STOP (STR$_ILLSTRCLA) ; !common
: 182      0458      [LIB$_INVARG]: LIB$STOP (STR$_ILLSTRCLA) ;
: 183      0459      [LIB$_WRONUMARG]: LIB$STOP (STR$_WRONUMARG) ;
: 184      0460
: 185      0461      [OTHERWISE]: .IN_STATUS ; ! unlikely
: 186      0462      TES );
: 187      0463      RETURN OUT_STATUS;
: 188      0464 1      END; ! End of routine STR$$CHECK_STATUS_R2

```

.TITLE STR\$\$CHECK_STATUS STR\$\$CHECK_STATUS -Check status and convert to

.IDENT \1-003\

.EXTRN LIB\$STOP, LIB\$_INSVIRMEM
 .EXTRN LIB\$_INVSTRDES, LIB\$_INVARG
 .EXTRN LIB\$_STRTRU, LIB\$_WRONUMARG
 .EXTRN STR\$_NORMAL, STR\$_INSVIRMEM
 .EXTRN STR\$_ILLSTRCLA, STR\$_TRU
 .EXTRN STR\$_WRONUMARG

.PSECT _STR\$CODE, NOWRT, SHR, PIC, 2

52	50	DO 00000	STR\$\$CHECK STATUS R2::		
01	52	D1 00003	MOVL R0, R2		: 0400
	5C	13 00006	CMPL IN_STATUS, #1		: 0451
00000000G	8F	52 D1 00008	BEQL 6\$		
	53	13 0000F	CMPL IN_STATUS, #STR\$_NORMAL		
00000000G	8F	52 D1 00011	BEQL 6\$: 0454
	08	12 00018	CMPL IN_STATUS, #LIB\$_STRTRU		
50 00000000G	8F	D0 0001A	BNEQ 1\$		
	05	00021	MOVL #STR\$_TRU, OUT_STATUS		
00000000G	8F	D1 00022	RSB		
	08	12 00029	CMPL IN_STATUS, #LIB\$_INSVIRMEM		: 0456
00000000G	8F	DD 0002B	BNEQ 2\$		
	29	11 00031	PUSHL #STR\$_INSVIRMEM		
00000000G	8F	52 D1 00033	BRB 5\$		
	09	13 0003A	CMPL IN_STATUS, #LIB\$_INVSTRDES		: 0457
00000000G	8F	52 D1 0003C	BEQL 3\$		
	08	12 00043	CMPL IN_STATUS, #LIB\$_INVARG		: 0458
00000000G	8F	DD 00045	BNEQ 4\$		
	0F	11 0004B	PUSHL #STR\$_ILLSTRCLA		
00000000G	8F	D1 0004D	BRB 5\$		
	0E	12 00054	CMPL IN_STATUS, #LIB\$_WRONUMARG		: 0459
00000000G	00	8F DD 00056	BNEQ 6\$		
	01	FB 0005C	PUSHL #STR\$_WRONUMARG		
	05	00063	CALLS #1, LIB\$STOP		
50	52	D0 00064	RSB		
	05	00067	MOVL IN_STATUS, OUT_STATUS		: 0461
			RSB		: 0464

; Routine Size: 104 bytes, Routine Base: _STR\$CODE + 0000

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: 189      0465 1 END      ! End of module STR$$CHECK_STATUS
: 190      0466 1

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STR\$\$CHECK_STAT STR\$\$CHECK_STATUS -Check status and convert to L 16
1-003 STR\$\$CHECK_STATUS_R2 - Check Status 16-Sep-1984 01:31:12
14-Sep-1984 12:40:01

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]STRCHESTA.B32;1

Page 6
(3)

: 191 0467 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
_STR\$CODE	104	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	1	0	581	00:00.8

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:STRCHESTA/OBJ=OBJ\$:STRCHESTA MSRC\$:STRCHESTA/UPDATE=(ENH\$:STRCHESTA)

: Size: 104 code + 0 data bytes
: Run Time: 00:03.4
: Elapsed Time: 00:16.5
: Lines/CPU Min: 8339
: Lexemes/CPU-Min: 25500
: Memory Used: 50 pages
: Compilation Complete

0213 AH-BT13A-SE
VAX/VMS V4.0

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